

Abstract

A fuel injector (1) having an integrated spark plug (2) includes a fuel injector (1) for the direct injection of fuel into a combustion chamber of an internal combustion engine and a spark plug (2) for igniting the fuel injected into the combustion chamber, including a spark-plug insulator (9) that has a first electrode (10), and a second electrode (12), which is set apart from the first electrode (10) by a spark gap (13), the fuel injector (1) and the spark-plug insulator (9) of the spark plug (2) being arranged in a shared housing (11). The spark gap (13) has a width of 50 to 300 μm and is disposed in front of the fuel injector (1) at a distance of 3 to 10 mm.

(Figure 1)